

FIG. 1

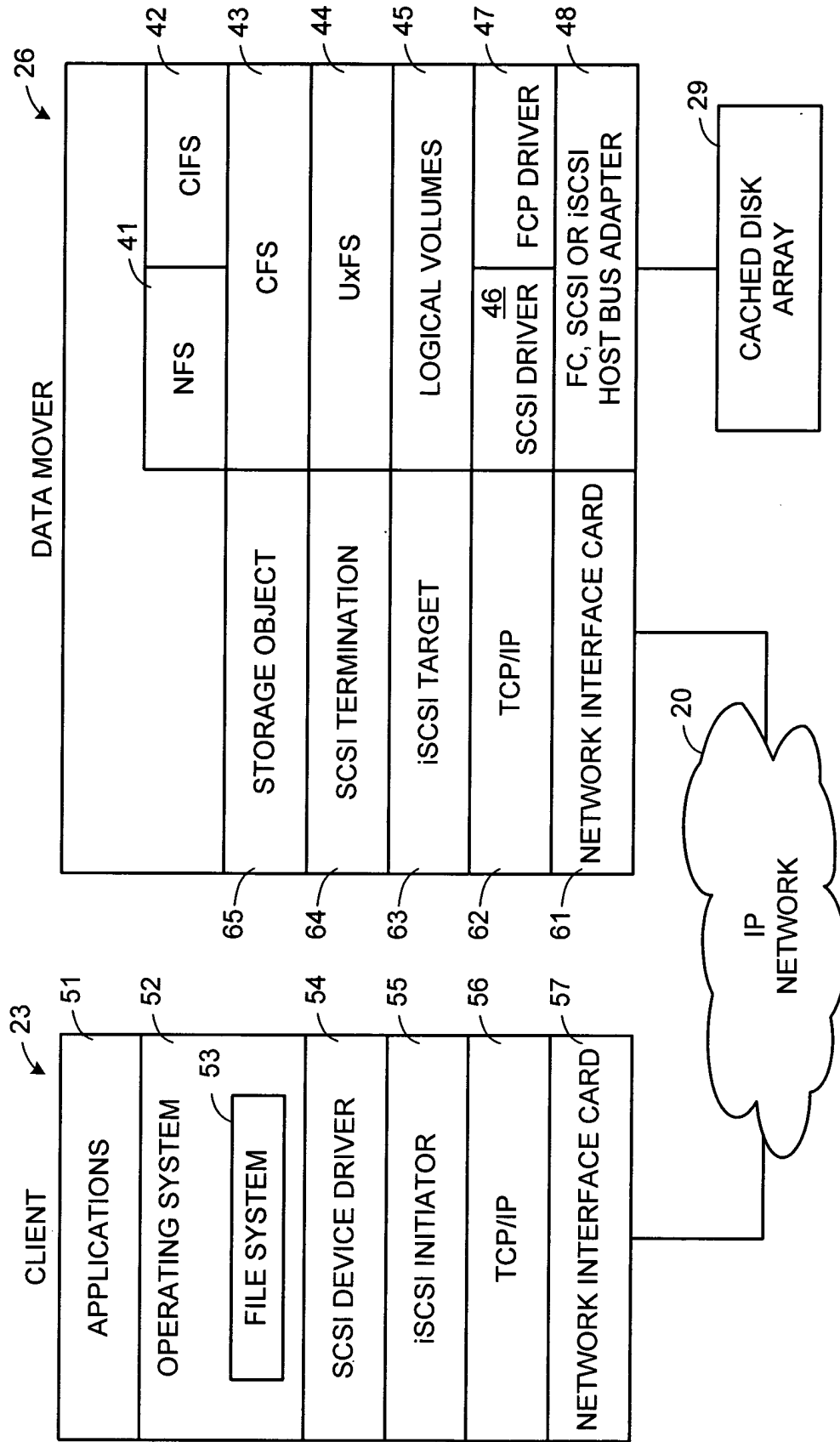


FIG. 2

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| | | | |
|-------------------------------------|--------------|--------------|----------|
| OPCODE | BYTE 1 FLAGS | BYTE 2 FLAGS | RESERVED |
| LENGTH | | | |
| LOGICAL UNIT NUMBER (LUN) | | | |
| INITIATOR TASK TAG | | | |
| EXPECTED DATA TRANSFER LENGTH | | | |
| CMDRN | | | |
| EXPSTATRN | | | |
| SCSI COMMAND DESCRIPTOR BLOCK (CDB) | | | |
| ADDITIONAL COMMAND-DEPENDENT DATA | | | |

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FIG. 3 (PRIOR ART)

| |
|-------------------------------------|
| OPERATION CODE |
| RESERVED |
| LOGICAL BLOCK ADDRESS (IF REQUIRED) |
| RESERVED |
| PARAMETER LIST LENGTH (IF REQUIRED) |
| CONTROL |

FIG. 4 (PRIOR ART)

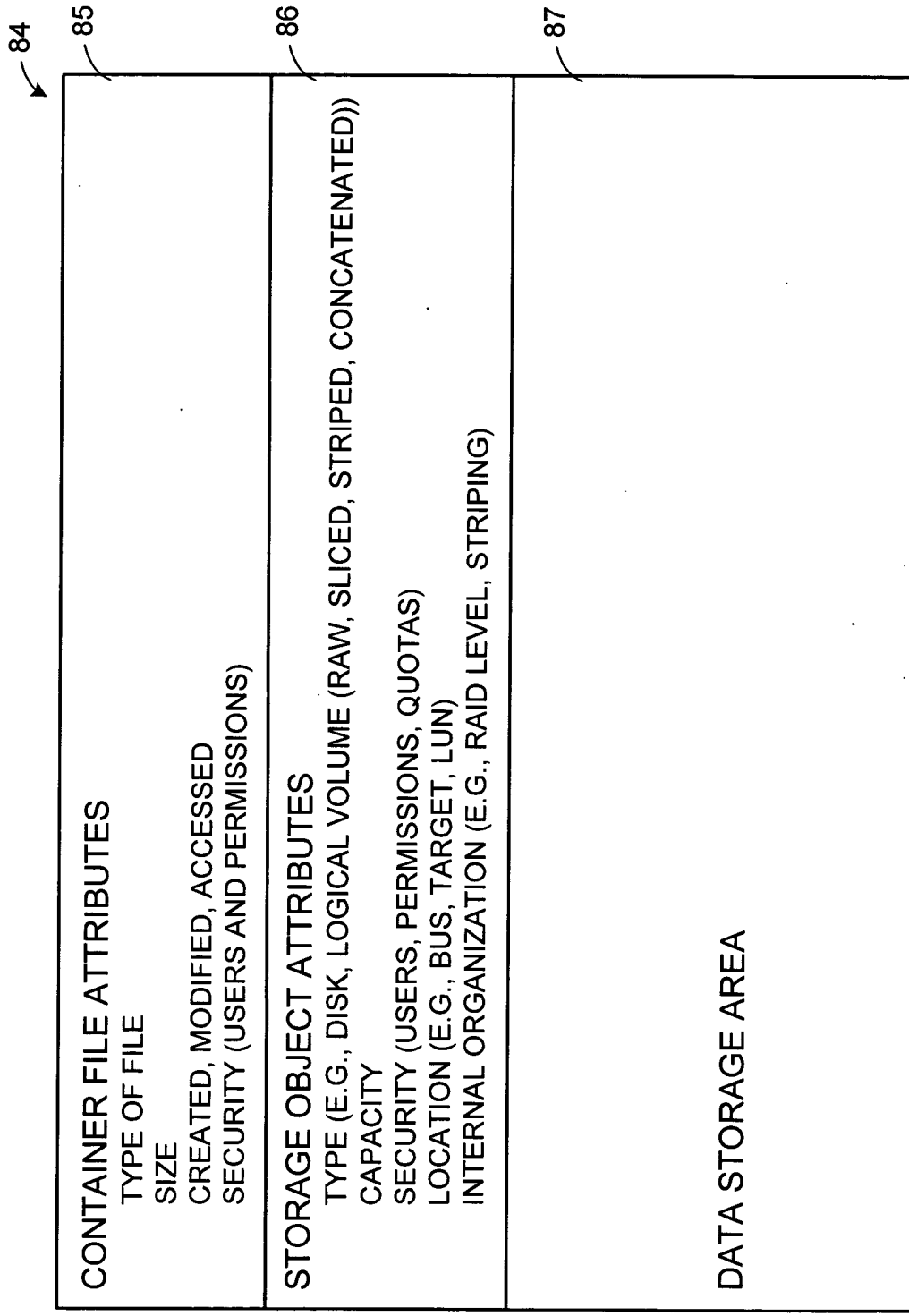


FIG. 5

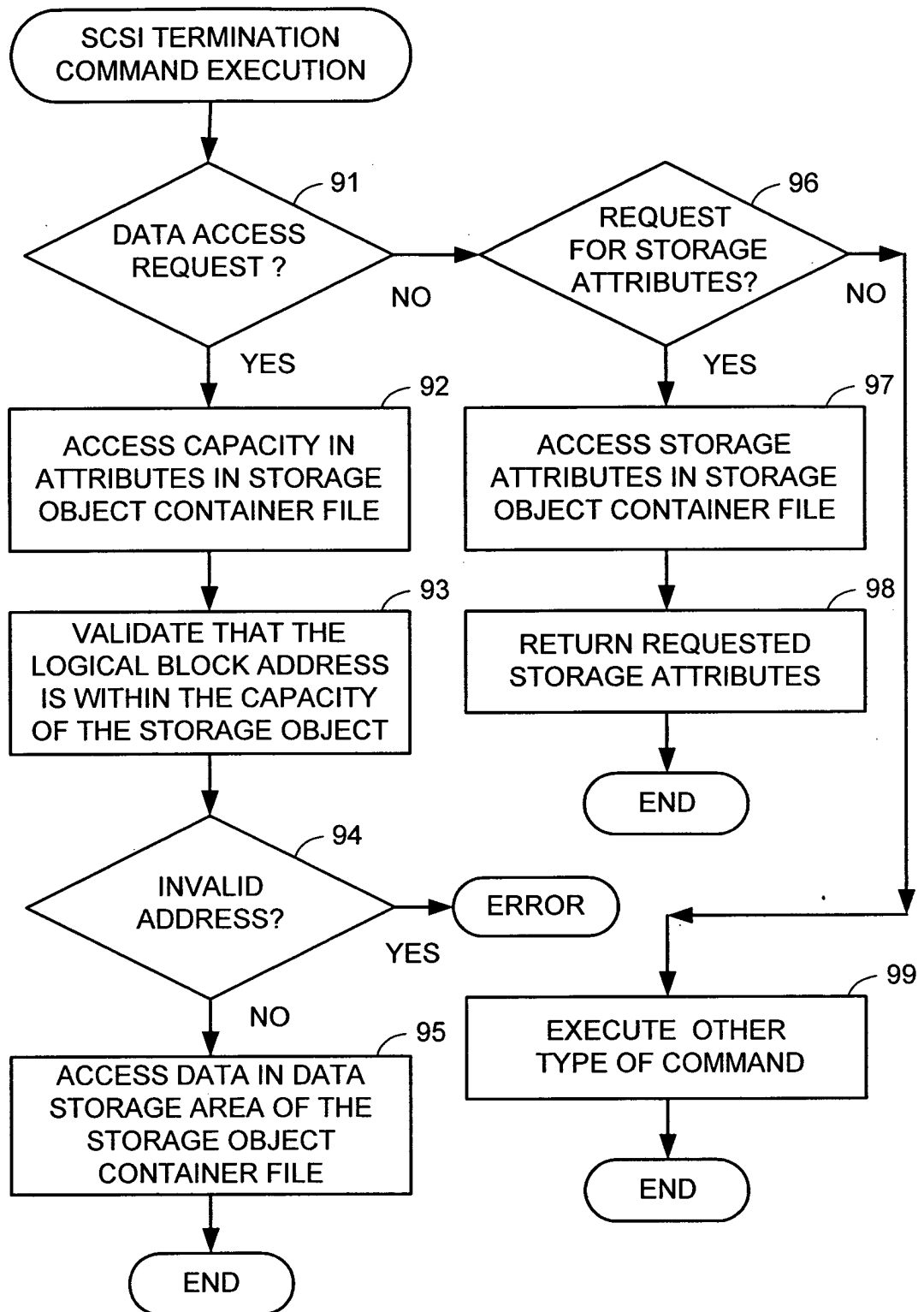


FIG. 6

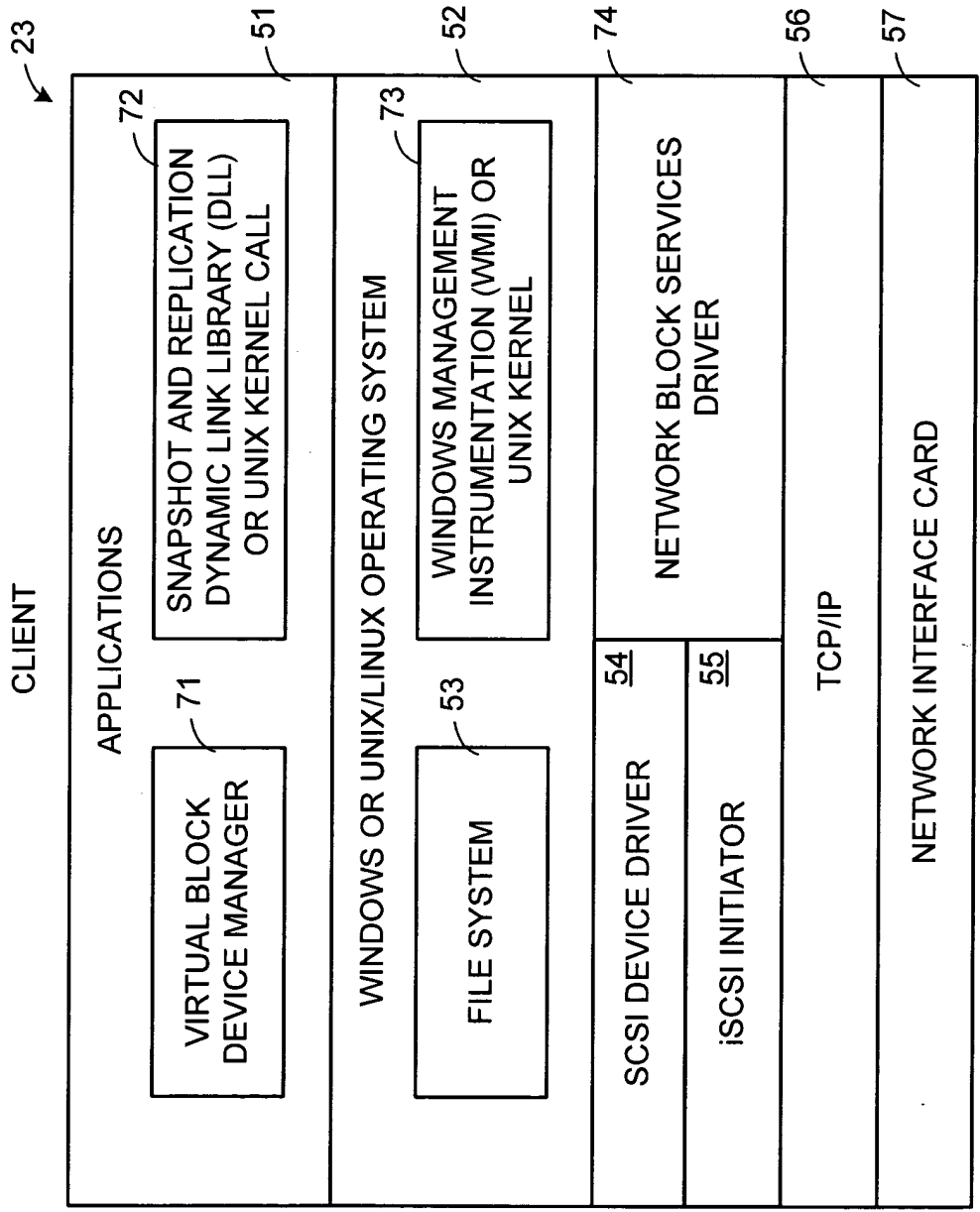


FIG. 7

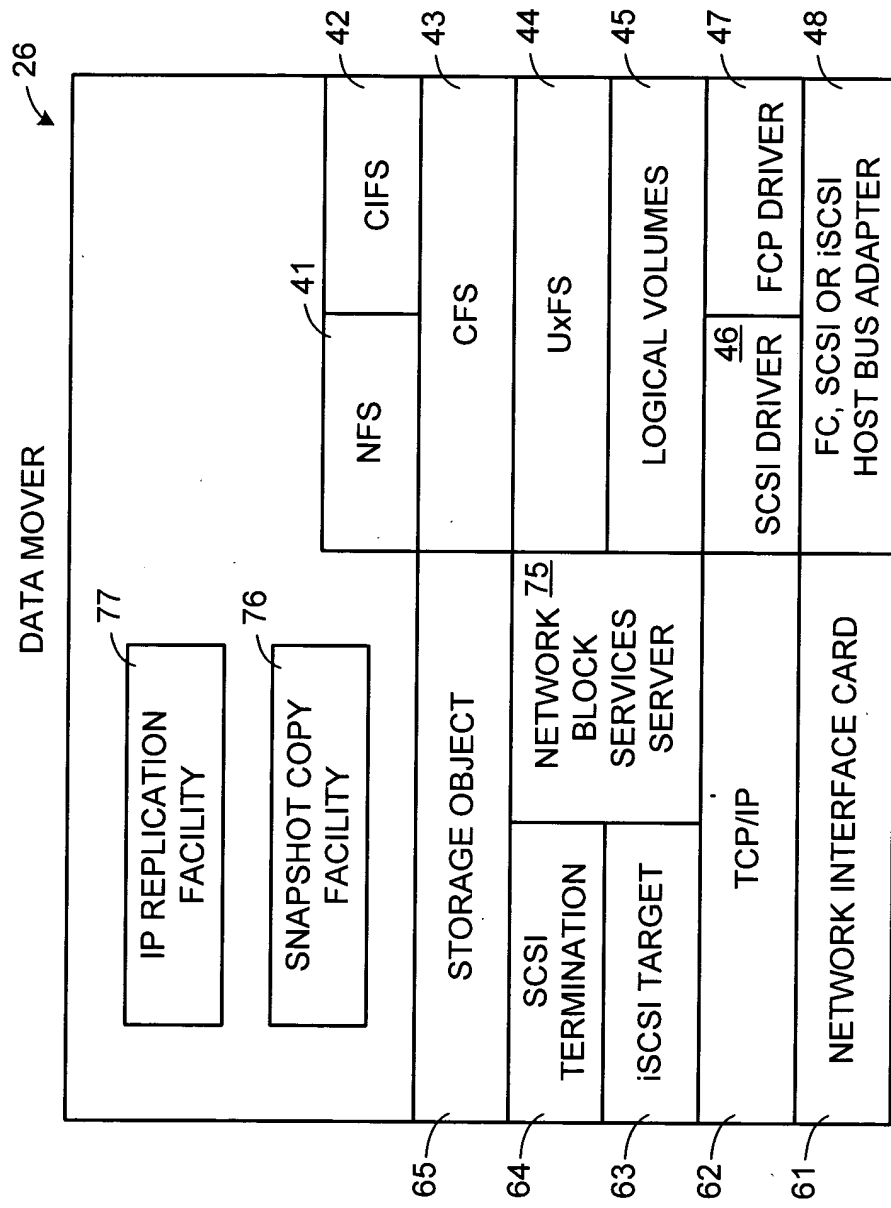


FIG. 8

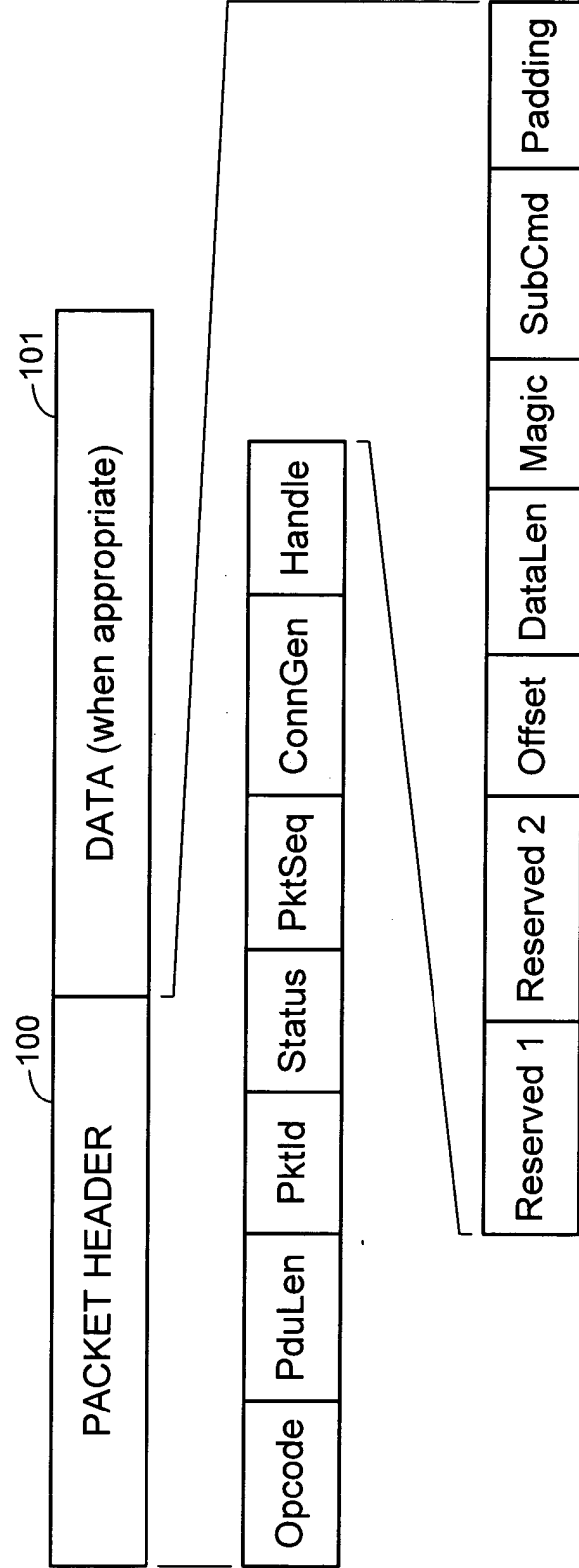


FIG. 9

DRIVER OPCODES

| | |
|--------------|---|
| READ | READS A SPECIFIED LENGTH OF DATA FROM A SPECIFIED STORAGE OBJECT BEGINNING AT A SPECIFIED OFFSET |
| WRITE | WRITES A SPECIFIED LENGTH OF DATA TO SPECIFIED STORAGE OBJECT BEGINNING AT A SPECIFIED OFFSET |
| INFO | GETS A LIST OF THE STORAGE OBJECTS ON THE SERVER, OR GETS THE CAPACITY AND HANDLE OF A NAMED OBJECT |
| NO-OP | SENDS A PACKET TO A SERVER TO GET A RETURN PACKET TO TEST OR KEEP ALIVE THE TCP CONNECTION |
| PAUSE | PAUSE ACCESS TO A SPECIFIED STORAGE OBJECT |
| RESUME | RESUME ACCESS TO A SPECIFIED STORAGE OBJECT |
| SNAP | SNAPSHOT MANAGEMENT WITH RESPECT TO A SPECIFIED STORAGE OBJECT |
| READ OPAQUE | OPAQUE READ WITH RESPECT TO A SPECIFIED STORAGE OBJECT |
| WRITE OPAQUE | OPAQUE WRITE WITH RESPECT TO A SPECIFIED STORAGE OBJECT |
| AUTH | AUTHENTICATE THE DRIVER IDENTITY TO THE SERVER |
| MSG | SEND A MESSAGE TO THE SERVER |

FIG. 10

SERVER OPCODES

| | |
|--------------|--|
| READ | RETURNS THE REQUESTED DATA |
| WRITE | RETURNS A CONFIRMATION OF THE WRITE OPERATION |
| INFO | RETURNS THE REQUESTED INFORMATION |
| NO-OP | RETURNS A NO-OP PACKET |
| PAUSE | RETURNS A CONFIRMATION OF THE PAUSE |
| RESUME | RETURNS A CONFIRMATION OF THE RESUME |
| SNAP | RETURNS A CONFIRMATION OF THE SNAP OPERATION |
| READ OPAQUE | RETURNS THE REQUESTED DATA |
| WRITE OPAQUE | RETURNS A CONFIRMATION OF THE WRITE OPERATION |
| AUTH | RETURNS A RESPONSE TO THE AUTHENTICATION REQUEST |
| MSG | RETURNS A CONFIRMATION OF RECEIPT OF THE MESSAGE |

FIG. 11

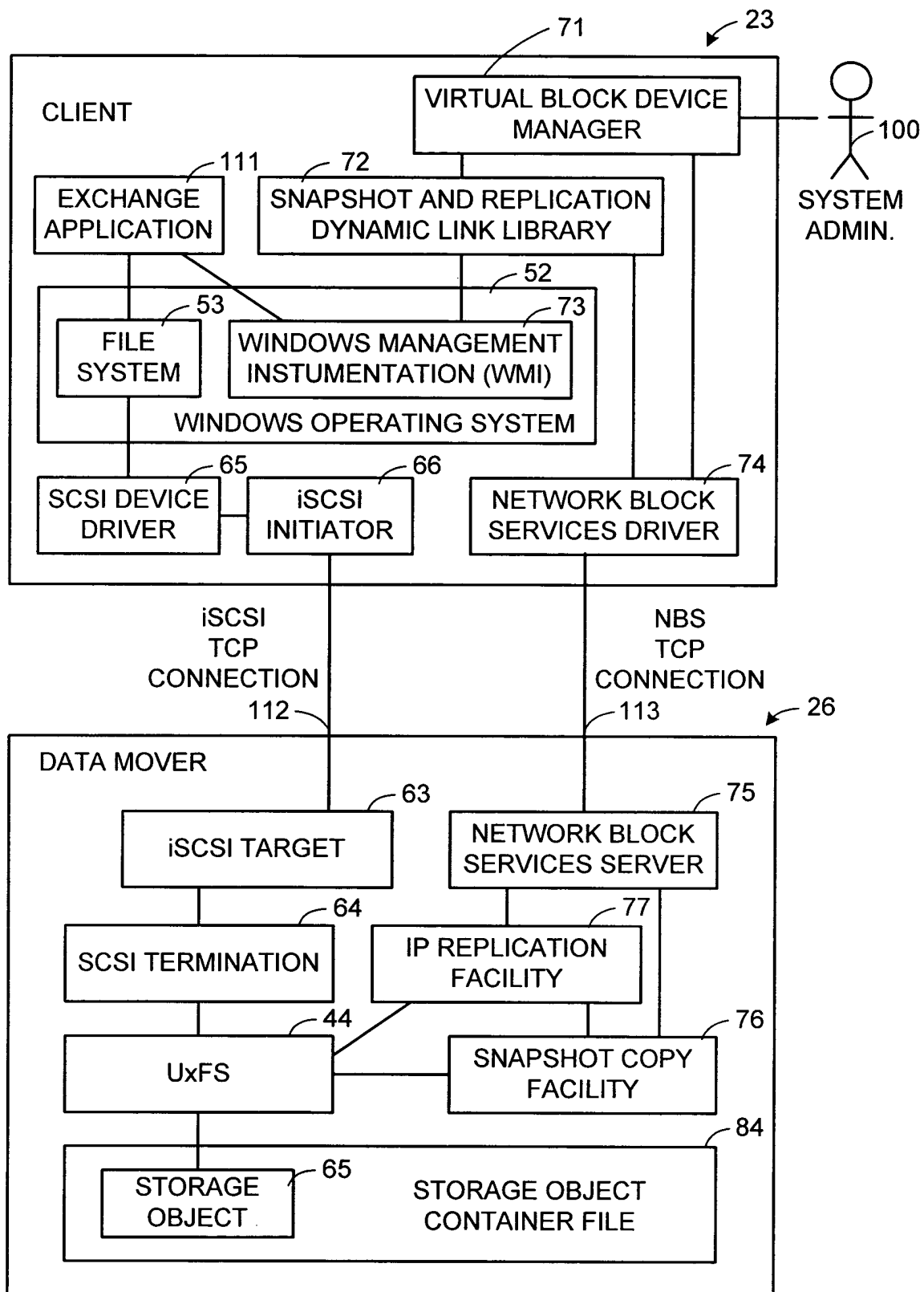


FIG. 12

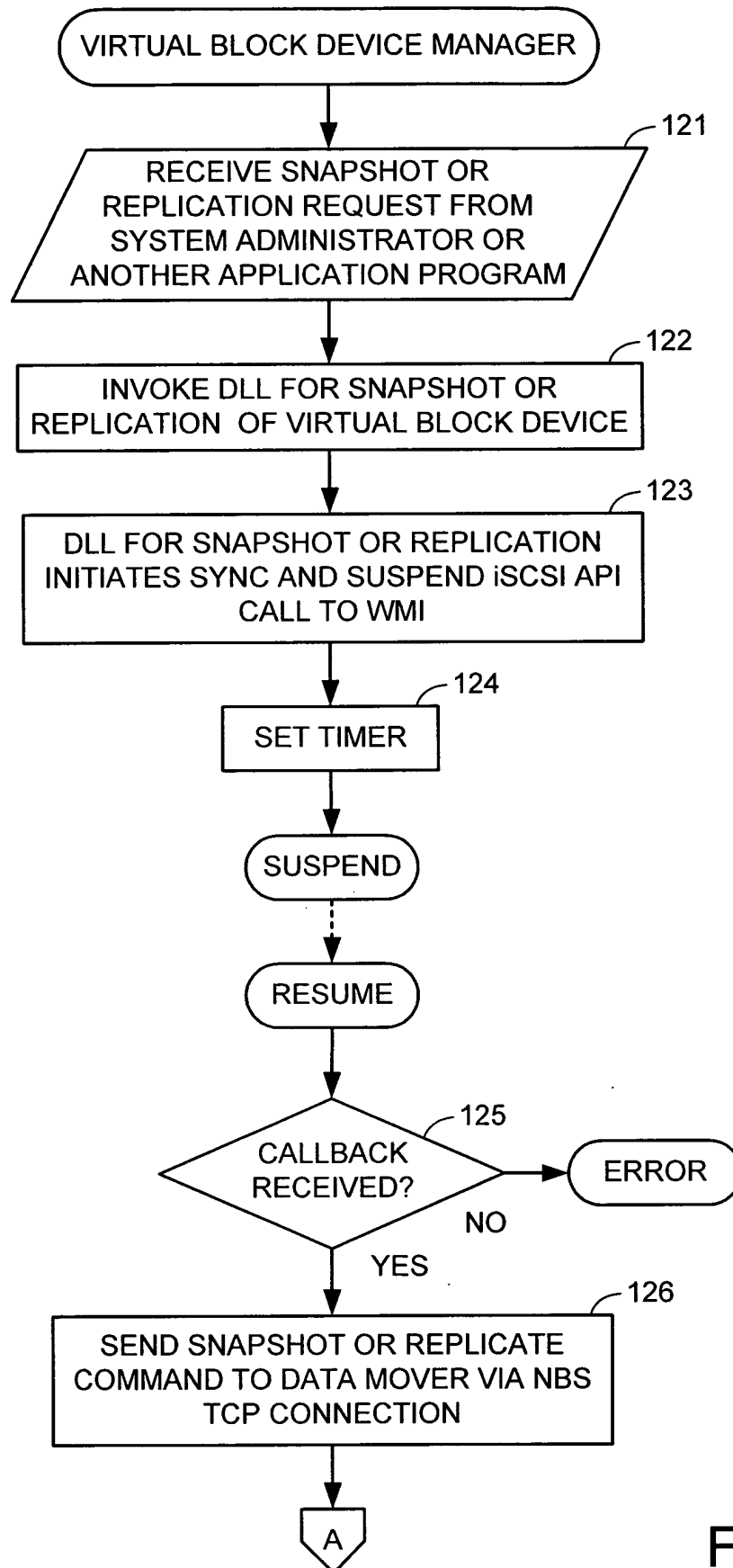


FIG. 13

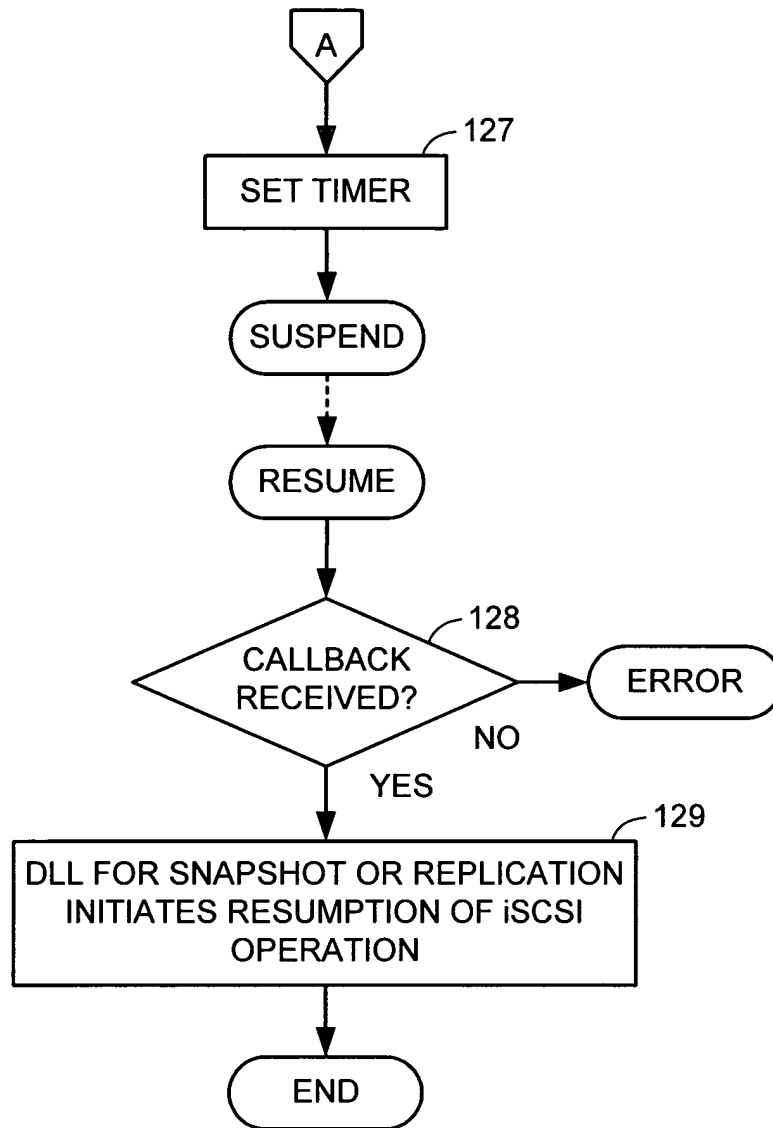


FIG. 14

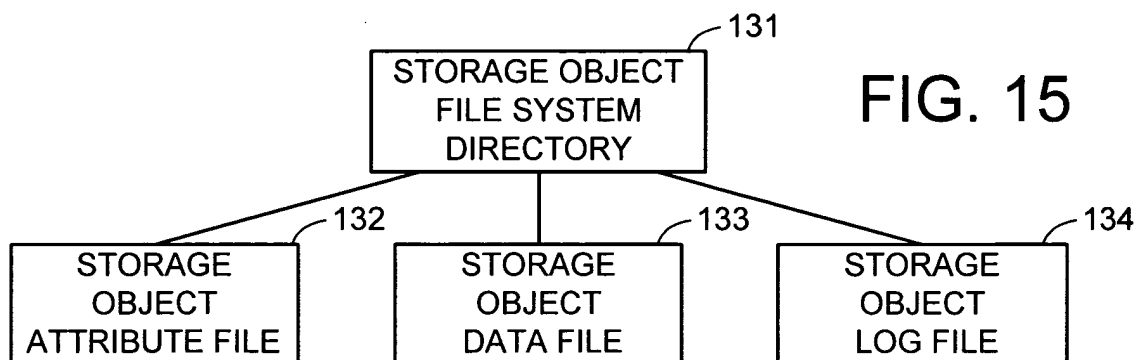


FIG. 15